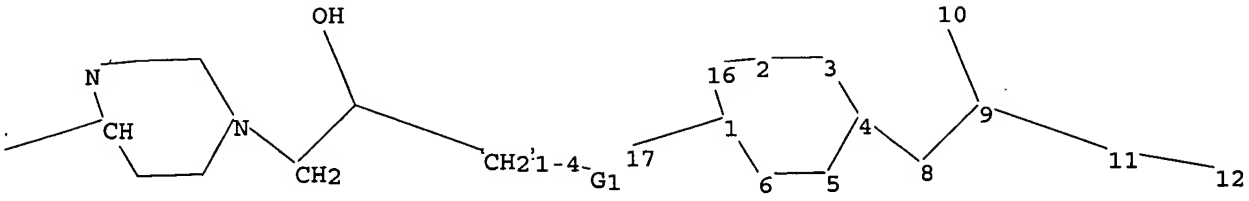


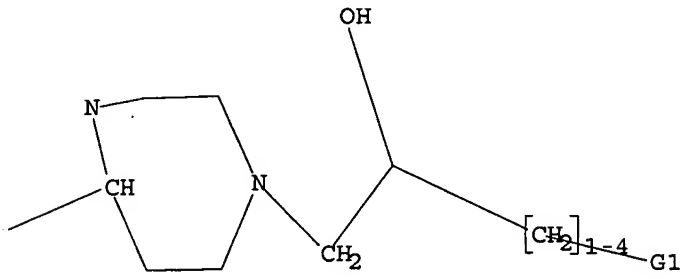
chain nodes :
8 9 10 11 12 17
ring nodes :
1 2 3 4 5 6 16
chain bonds :
1-17 4-8 8-9 9-10 9-11 11-12
ring bonds :
1-16 1-6 2-3 2-16 3-4 4-5 5-6
exact/norm bonds :
1-16 2-16 3-4 4-5 9-10 11-12
exact bonds :
1-6 1-17 2-3 4-8 5-6 8-9 9-11
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 16:Atom 17:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 17:36:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 116 TO ITERATE

100.0% PROCESSED 116 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

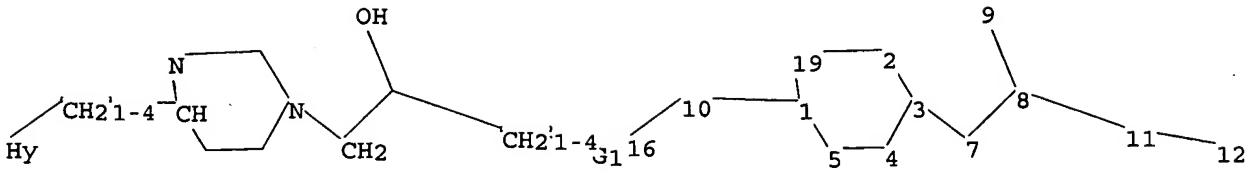
---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

STN INTERNATIONAL LOGOFF AT 17:36:51 ON 20 JUN 2005



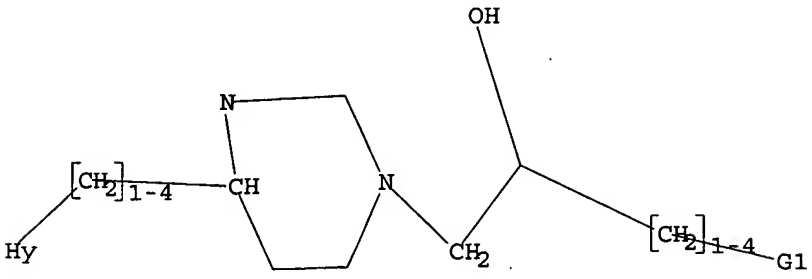
chain nodes :
7 8 9 10 11 12 16
ring nodes :
1 2 3 4 5 19
chain bonds :
1-10 3-7 7-8 8-9 8-11 10-16 11-12
ring bonds :
1-5 1-19 2-3 2-19 3-4 4-5
exact/norm bonds :
1-5 1-19 2-3 2-19 3-4 4-5 8-9 10-16 11-12
exact bonds :
1-10 3-7 7-8 8-11
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 16:Atom 19:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 17:22:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 673 TO ITERATE

100.0% PROCESSED 673 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

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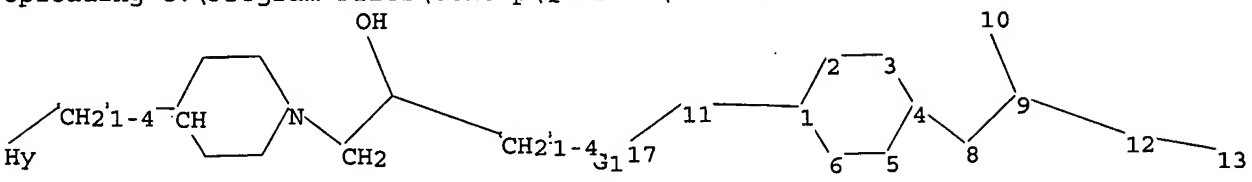
Uploading C:\Program Files\Stnexp\Queries\10-759562a.str



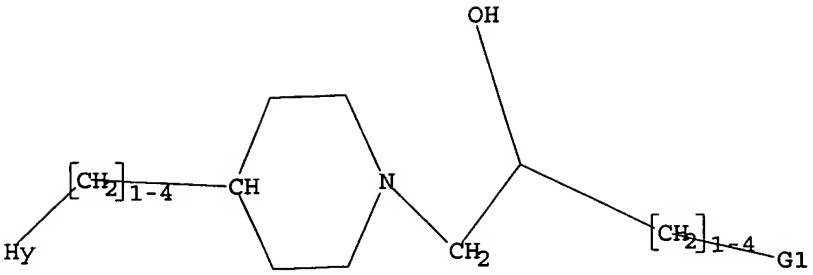
chain nodes :
8 9 10 11 12 13 17
ring nodes :
1 2 3 4 5 6
chain bonds :
1-11 4-8 8-9 9-10 9-12 11-17 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 11-17 12-13
exact bonds :
1-11 4-8 8-9 9-12
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 17:Atom

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l3 ful
FULL SEARCH INITIATED 17:23:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 20207 TO ITERATE

100.0% PROCESSED 20207 ITERATIONS 82 ANSWERS
SEARCH TIME: 00.00.01

L4 82 SEA SSS FUL L3

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	322.23	322.44

FILE 'CAPLUS' ENTERED AT 17:23:08 ON 20 JUN 2005
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE LAST UPDATED: 19 Jun 2005 (20050619/ED)

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=> s l4
L5 10 L4

=> d ibib abs hitstr tot

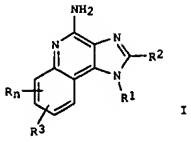
L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:566606 CAPLUS
DOCUMENT NUMBER: 141:123628
TITLE: Preparation of aryl/heteroaryl substituted imidazoquinolines as immunomodulators
INVENTOR(S): Hays, David S.; Niwas, Shri; Kshirsagar, Tushar; Ghosh, Tarun K.; Gupta, Shalley K.; Heppner, Philip D.; Merrill, Bryon A.; Bonk, Jason D.; Danielson, Michael E.; Gerster, John F.; Haraldson, Chad A.; Johannessen, Sarah C.; Kavanagh, Maureen A.; Lindstrom, Kyle J.; Prince, Ryan B.; Radmer, Matthew R.; Rice, Michael J.; Squire, David J.; Strong, Sarah A.; Wurst, Joshua R.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 465 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058759	A1	20040715	WO 2003-US40373	20031218
WO 2004058759	C1	20050317		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004147543	A1	20040729	US 2003-739787	20031218
PRIORITY APPLN. INFO.:			US 2002-435889P	P 20021220
			US 2003-516331P	P 20031031

OTHER SOURCE(S): MARPAT 141:123628
GI



I

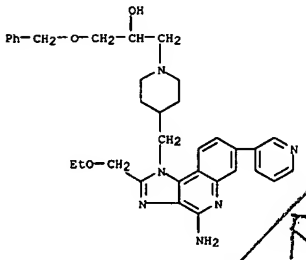
L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB Title compds. I (R = alkyl, alkoxy, OH, CF3; n = 0, 1; R1, R2 = H, non-interfering substituent; R3 = ArZ, aminosulfonylaryl, aminocarbonylaryl, etc.; Ar = aryl, heteroaryl; Z = bond, alkylene, alkenylene, alkynylene) which are immunomodulators, inducing cytokines biosynthesis, and inhibiting tumor necrosis factors biosynthesis, are prepared For example, 2-butyl-1-isobutyl-7-(thiophen-3-yl)-1H-imidazo[4,5-c]quinolin-4-amine was prepared in a multi-step synthesis starting from 3-bromoaniline, tri-Et orthoformate, and Meldrum's acid. I are useful in the treatment of viral and neoplastic diseases.
IT 723267-80-9P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazoquinoline derivs. as immunomodulators for treatment of viral and antineoplastic diseases)
RN 723267-80-9 CAPLUS
CN 1-Piperidineethanol, 4-[[4-amino-2-(ethoxymethyl)-7-(3-pyridinyl)-1H-imidazo[4,5-c]quinolin-1-yl]methyl]-α-[(phenylmethoxy)methyl]-, trifluoroacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 723267-79-6
CMF C34 H40 N6 O3



CM 2

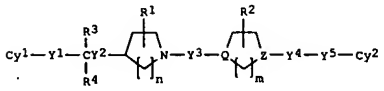
CRN 76-05-1
CMF C2 H F3 O2

Not immunocyte...

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:349075 CAPLUS
DOCUMENT NUMBER: 134:348289
TITLE: Selective serotonin reuptake inhibitors for anxiolytics and antidepressants
INVENTOR(S): Takado, Toru; Masumoto, Shuji; Kojima, Atsushi
PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001131149	A2	20010515	JP 1999-316476	19991108
PRIORITY APPLN. INFO.:			JP 1999-316476	19991108

OTHER SOURCE(S): MARPAT 134:348289
GI

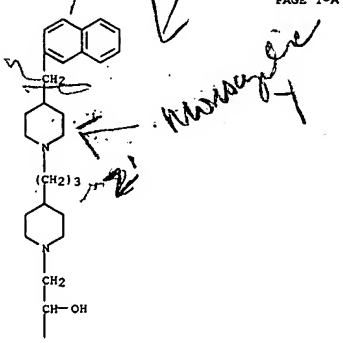


I

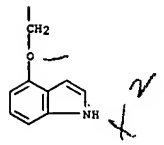
AB The inhibitors comprise heterocyclic compds. I [Cyl = monocyclic aryl, dicyclic fused aromatic hydrocarbyl, fused aromatic heterocyclyl; Cy2 = (un)substituted aryl, aromatic heterocyclyl, cycloalkyl; Y1, Y2 = single bond, CH2, O; Y3 = (un)substituted alkylene; Y4 = (un)substituted alkylene, alkenylene, alkynylene; Y5 = single bond, O, S, NH; R1, R2 = H, substituent; R3, R4 = H, OH, alkyl; Q, Z = methine, N; n, m = 1-3], their prodrugs, or pharmaceutically acceptable salts are prepared 1-(2-Bromo-5-methoxybenzyl)-4-(3-chloropropyl)piperazine was treated with 2-fluoro-5-methoxypiperidine in the presence of K2CO3 and KI in acetonitrile under reflux for 2 h to give 68% 1-(2-bromo-5-methoxybenzyl)-4-[3-[4-(2-fluoro-5-methoxybenzyl)piperidino]propyl]piperazine showing good [3H]citalopram binding inhibitory activity in vitro.
IT 339152-68-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(selective serotonin reuptake inhibitors for anxiolytics and antidepressants)
RN 339152-68-0 CAPLUS
CN 1-Piperidineethanol, α-[(1H-indol-4-yloxy)methyl]-4-[3-[4-(2-naphthalenylmethyl)-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



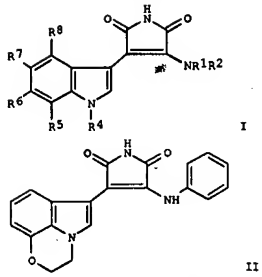
L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:98548 CAPLUS
DOCUMENT NUMBER: 132:151675
TITLE: Preparation of disubstituted maleimide compds. in medicinal utilization
INVENTOR(S): Inaba, Takashi; Tanaka, Masahiro; Sakoda, Kenji
PATENT ASSIGNEE(S): Japan Tobacco Inc., Japan
SOURCE: PCT Int. Appl., 181 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006564	A1	20000210	WO 1999-JP4085	19990728
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2338866	AA	20000210	CA 1999-2338866	19990728
AU 9949299	A1	20000221	AU 1999-49299	19990728
JP 2000109479	A2	20000418	JP 1999-213248	19990728
EP 1120414	A1	20010801	EP 1999-933165	19990728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9912612	A	20011120	BR 1999-12612	19990728
NO 2001000487	A	20010328	NO 2001-487	20010129
PRIORITY APPLN. INFO.:			JP 1998-215070 A	19980730
			WO 1999-JP4085 W	19990728

OTHER SOURCE(S): MARPAT 132:151675
GI

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



I

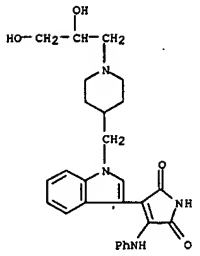
II

AB Title compds. [I; wherein R1 = H, alkyl; R2 = aryl, cycloalkyl, heterocycle; R3, R5, R6, R7 and R8 represent each hydrogen, halogeno, hydroxy, amino, alkyl or alkoxy ; R4 = H, CH2CH2NR9R10; R9 = alkyl; R10 = arylalkyl, alkylamino, dialkylimino; R4 and R3 or R4 and R5 may form together a ring substituted by substituted alkyl], pharmaceutically acceptable salts, and medicinal compns. as protein kinase (PKC) β-inhibitors and used as efficacious and safe remedies and preventives for diseases caused by PKC such as complications of diabetes. The title compound II was prepared

IT 257878-98-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of disubstituted maleimide compds. in medicinal utilization)

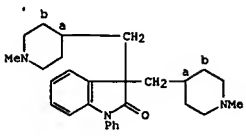
RN 257878-98-1 CAPLUS
CN 1H-Pyrrole-2,5-dione, 3-[1-[[1-(2,3-dihydroxypropyl)-4-piperidinyl]methyl]-1H-indol-3-yl]-4-(phenylamino)- (9CI) (CA INDEX NAME)

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

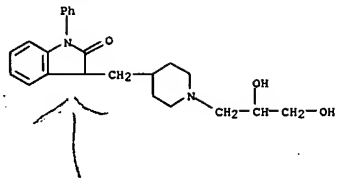
L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:530901 CAPLUS
DOCUMENT NUMBER: 119:130901
TITLE: Synthesis and anti-HIV activity of a series of 2-indolinones and related analogs
AUTHOR(S): Smallheer, J. M.; Otto, M. J.; Amaral-Ly, C. A.; Earl, R. A.; Myers, M. J.; Pennev, P.; Montefiori, D. C.; Wuonola, M. A.
CORPORATE SOURCE: Du Pont Merck Pharm. Co., Wilmington, DE, 19880, USA
SOURCE: Antiviral Chemistry & Chemotherapy (1993), 4(1), 27-39
CODEN: ACCHEH; ISSN: 0956-3202
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I, ab=unsatd. bond
II, ab=satd. bond

AB A novel series of 2-indolinones with in vitro anti-HIV (human immunodeficiency virus) activity is described. Two structurally related compds., 3,3-(4-N-methyl-1,2,5,6-tetrahydropyridylmethyl)-1-phenyl-2-indolinone (I), and its 4-N-methylpiperidinylmethyl analog (II), formed the basis of a structure-activity study. The synthesis of approx. 50 analogs and their resp. activities vs. HIV are presented. Both 1 and 2 were effective inhibitors of HIV(IIIb) in cell protection assays with IC90 values of 4.4 and 14.9 μM (2.2 and 7.9 μg mL-1), resp. In the same concentration range, 1 and 2 also inhibit syncytia formation. These compds. represent a novel class of anti-HIV agents which appear to act by inhibiting virus-dependent cell fusion.
IT 147947-58-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 147947-58-8 CAPLUS
CN 2H-Indol-2-one, 3-[[1-(2,3-dihydroxypropyl)-4-piperidinyl]methyl]-1,3-dihydro-1-phenyl- (9CI) (CA INDEX NAME)

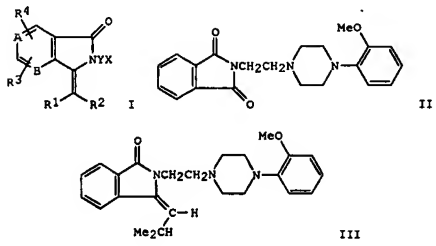
L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:495325 CAPLUS
DOCUMENT NUMBER: 119:95325
TITLE: Preparation of 3-methyleneisoindolin-1-one derivatives for treating ischemic cerebral disorders
INVENTOR(S): Mohri, Shinichiro; Obase, Hiroyuki; Ikeda, Junichi; Kubo, Kazuhiro; Mori, Akihisa; Ishii, Akio
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan
SOURCE: PCT Int. Appl., 185 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9217448	A1	19921015	WO 1992-JP246	19920302
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
PRIORITY APPLN. INFO.:			JP 1991-68379 A	19910401

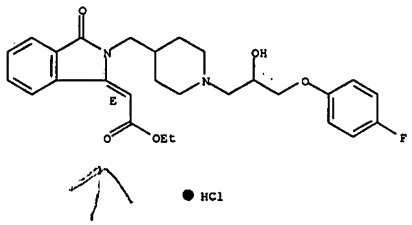
OTHER SOURCE(S): MARPAT 119:95325
GI



AB The title compds. [I; A, B = CH, N; R1, R2 = alkyl; R3, R4 = halo, alkoxy, etc.; X = (substituted) heterocyclyl; Y = (CH2)1-4] are prepared A solution of Me2CHCH2MgBr in THF was added to a solution of imide II in THF with stirring at room temperature under Ar, 4 N HCl was added with stirring, followed by H2O and 10 N NaOH, and the mixture was extracted with EtOAc to give 50% III, which as a phosphate salt showed min. ED of 6.3 mg/kg p.o. for cerebral protection in mice.
IT 149261-70-1P

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as ischemic cerebral disease drug)
RN 149261-70-1 CAPLUS
CN Acetic acid, [2-[[1-[3-(4-fluorophenoxy)-2-hydroxypropyl]-4-piperidinyl]methyl]-2,3-dihydro-3-oxo-1H-isoindol-1-ylidene]-, ethyl ester, monohydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

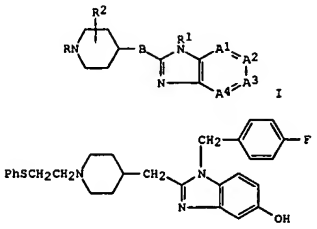


L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:437821 CAPLUS
DOCUMENT NUMBER: 109:37821
TITLE: Preparation of 4-[(bicyclic heterocyclyl)methyl]piperidines and analogs as antihistaminics
INVENTOR(S): Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; Diels, Gaston S. M.
PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
SOURCE: U.S., 59 pp. Cont.-in-part of U.S. Ser. No. 571,135, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4695575	A	19870922	US 1985-747754	19850624
ES 539281	A1	19870616	ES 1984-539281	19841231
AU 8537364	A1	19850912	AU 1985-37364	19850107
AU 573673	B2	19880616		
CA 1259609	A1	19890919	CA 1985-471589	19850107
DK 8500089	A	19850710	DK 1985-89	19850108
FI 8500079	A	19850710	FI 1985-79	19850108
FI 83867	B	19910531		
FI 83867	C	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	B	19890227		
NO 160849	C	19890607		
JP 60185777	A2	19850921	JP 1985-479	19850108
JP 07068240	B4	19950726		
HU 36471	A2	19850930	HU 1985-61	19850108
HU 200338	B	19900528		
ZA 8500187	A	19860827	ZA 1985-187	19850108
RO 90622	B3	19861210	RO 1985-117252	19850108
SU 1396964	A3	19880515	SU 1985-3836858	19850108
IL 74018	A1	19880831	IL 1985-74018	19850108
PL 145710	B1	19881031	PL 1985-251488	19850109
US 4839374	A	19890613	US 1987-94987	19870910
PRIORITY APPLN. INFO.:			US 1984-569369 A2	19840109
			US 1984-671135 A2	19841113
			US 1985-747754 A3	19850624

OTHER SOURCE(S): CASREACT 109:37821
GI

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



I

II

AB The title compds. [I; 3 of A1-A4 = (un)substituted CH, the 4th = N, (un)substituted CH; B = CH2, O, SO, SO2; R = substituted C1-6 alkyl, alkoxy, alkylthio, amino, pyrrolidinyl, piperidinyl, hexahydroazepinyl, etc.; R1 = H, alkyl, cycloalkyl, (un)substituted aryl, heteroaryl, (hetero)aralkyl; R2 = H, alkyl] and their stereoisomers and acid salts were prepared as antihistaminics and serotonin antagonists. 1-[(4-Fluorophenyl)methyl]-2-(4-piperidinylmethyl)-1H-benzimidazol-5-ol and PhSCH2CH2Br were refluxed 2 h in Me2CHCH2COMe containing Na2CO3 to give 27.8% benzimidazole derivative (II). I inhibited compound 48/80-induced lethality in rats, caused by histamine release, with ED50 of 0.005-0.16 mg/kg s.c. or orally. I also inhibited gastric lesions caused by simultaneous release of serotonin.
IT **99958-99-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antihistaminic)
RN 99958-99-3 CAPLUS
CN 1-Piperidineethanol, 4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-α-[(2-naphthalenyloxy)methyl]-, ethanedioate (1:2) (salt) (9CI) (CA INDEX NAME)

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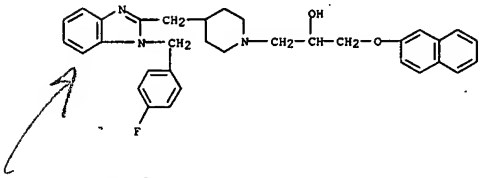
CRN 99958-98-2
CMF C33 H34 F N3 O2

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



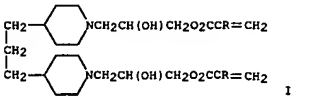
CM 2

CRN 144-62-7
CMF C2 H2 O4

L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:213320 CAPLUS
DOCUMENT NUMBER: 104:213320
TITLE: Dental cements containing vinyl monomers
INVENTOR(S): Shimakawa, Shuzo; Ooyagi, Shigehiro
PATENT ASSIGNEE(S): Nisshin Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61027907	A2	19860207	JP 1984-150313	19840718
JP 62051927	B4	19871102		
PRIORITY APPLN. INFO.:			JP 1984-150313	19840718

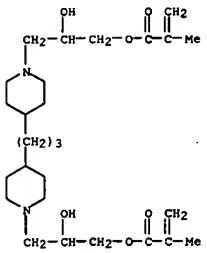
GI



I

AB Dental cements contain the monomer I (R = H or Me) and polymerization catalyst.
Thus, 1,3-bis(4-piperidyl-N-2-hydroxypropylmethacryl)propane (II) was prepared by treating glycidyl methacrylate with 1,3-di(4-pyridyl)propane. A dental cement contained 5 g II and 3 g poly(Me methacrylate) powder (containing 2% benzoyl peroxide). A strong adhesion to dental alloys and porcelain was demonstrated.
IT **102254-32-0P**
RL: PREP (Preparation)
(preparation of, for dental cement composition)
RN 102254-32-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,3-propanediylbis[4,1-piperidinediyl(2-hydroxy-3,1-propanediyl)] ester (9CI) (CA INDEX NAME)

L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

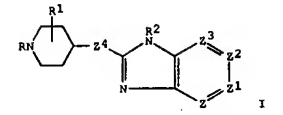
ACCESSION NUMBER: 1986:68861 CAPLUS
DOCUMENT NUMBER: 104:68861
TITLE: (Piperidinylmethyl)- and (piperidinyloxy)benzimidazole s and -imidazopyridines
INVENTOR(S): Janssens, Frans Eduard; Kennis, Ludo Edmond Josephine; Hens, Jozef Francis; Torremans, Joseph Leo G.; Diels, Gaston Stanislas M.
PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
SOURCE: Eur. Pat. Appl., 140 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 151826	A1	19850821	EP 1984-201851	19841213
EP 151826	B1	19930331		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 87626	E	19930415	AT 1984-201851	19841213
ES 539281	A1	19870616	ES 1984-539281	19841231
AU 8537364	A1	19850912	AU 1985-37364	19850107
AU 573673	B2	19880616		
CA 1259609	A1	19890919	CA 1985-471589	19850107
DK 8500089	A	19850710	DK 1985-89	19850108
FI 8500079	A	19850710	FI 1985-79	19850108
FI 83867	B	19910531		
FI 83867	C	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	B	19890227		
NO 160849	C	19890607		
JP 60185777	A2	19850921	JP 1985-479	19850108
JP 07068240	B4	19950726		
HU 36471	A2	19850930	HU 1985-61	19850108
HU 200338	B	19900528		
ZA 8500187	A	19860827	ZA 1985-187	19850108
RO 90622	B3	19861210	RO 1985-117252	19850108
SU 1396964	A3	19880515	SU 1985-3836858	19850108
IL 74018	A1	19880831	IL 1985-74018	19850108
PL 145710	B1	19881031	PL 1985-251488	19850109

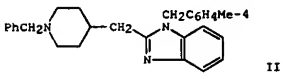
PRIORITY APPLN. INFO.: US 1984-569369 A 19840109
US 1984-671135 A 19841113
EP 1984-201851 A 19841213

GI

L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



I



II

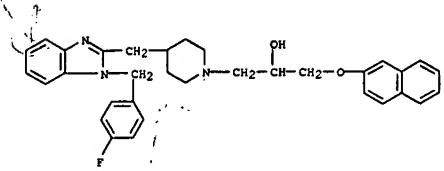
AB The title compds. I (Z-Z3 = CH, or one of Z-Z3 is N and the remainder are CH; Z4 = CH2, O, S, SO, SO2; R = alkyl, aryl-, heteroaryl-, acyl-hydroxy-, aryloxy, heteroaryloxy-, alkoxy-, arylthio-, carbonyl-, carboalkoxy-, cyano-, amino-, ureido-, thioureido-, or guanidinoalkyl, cycloalkyl, alkenyl, arylalkenyl; R1 = H, alkyl; R2 = H, alkyl, cycloalkyl, aryl, heteroaryl, aryl- or heteroarylalkyl), which were prepared, exhibited antihistaminic activity. Thus, a mixture of 2-(4-MeC6H4CH2NH)C6H4NH2 and Et 1-benzyl-4-piperidineacetimidate hydrochloride in MeOH was refluxed and NH3 was added to give benzimidazole II.

IT **99958-99-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antihistaminic activity of)

RN 99958-99-3 CAPLUS
CN 1-Piperidineethanol, 4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-α-[(2-naphthalenyloxy)methyl]-, ethanedioate (1:2) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 99958-98-2
CMF C33 H34 F N3 O2



L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CM 2

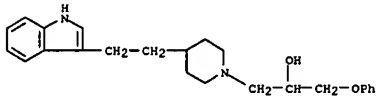
CRN 144-62-7
CMF C2 H2 O4

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:454886 CAPLUS
DOCUMENT NUMBER: 59:54886
ORIGINAL REFERENCE NO.: 59:10005a-e
TITLE: 4-(Indolylalkyl)-N-alkylpiperidines
INVENTOR(S): Gray, Allan Poe
PATENT ASSIGNEE(S): Irwin, Neisler and Co.
SOURCE: 28 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

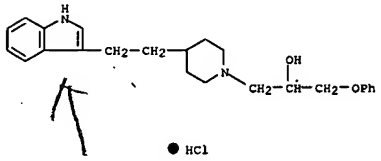
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR M1693		19630311	FR	
GB 925429			GB	
US 3136770		1964	US	
PRIORITY APPLN. INFO.:			US	19600401

GI For diagram(s), see printed CA Issue.
AB 4-(Indolylalkyl)pyridines are treated with alkylating agents to give pyridinium salts, which are reduced with NaBH4 and then with H(Pt) to give the title compds., which can be used as analgesics. Thus, a solution of 53 g. 4-(3-indolylethyl)pyridine in 200 ml. HOAc is hydrogenated over 1.2 g. Adams Pt catalyst at room temperature at 3.5 kg./cm.2 45 hrs., the catalyst filtered off, the filtrate concd, in vacuo, the residuetaken up in H2O containing HCl, the solution washed with ether, and made alkaline; solidification of the oil that seps. gives 69% 4-(3indolylethyl)piperidine (I), m. 162-3° (iso-PrOH); HCl salt m. 213-15° (decomposition, MeOH). A mixture of 125 g. I, 150 g. Na2CO3 H2O, and 750 ml. iso-PrOH is refluxed, a solution of 102 g. Ph(CH2)2Br in 125 ml. iso-PrOH added dropwise, the mixture heated 16 hrs. and filtered hot, concentrated, and cooled, and the precipitate filtered off and recrystd. from EtOH to give 148 g. 4-(3-indolylethyl)-1phenethylpiperidine (II), m. 129-30°; HCl salt m. 225-6° (decomposition, iso-PrOH); MeBr salt m. 233-4° (decomposition, EtOH); acetate m. 122-5° (iso-PrOH); maleate m. 103-6° (EtOAc MeOH). Similarly prepared are (m.p. given): 4-(3-indolylethyl)-1-(p-nitrophenethyl)piperidine, 173-5° (HCl salt m. 254-5°) (decomposition) (ether-iso- PrOH); 4-(3-indolylethyl)-1-benzylpiperidine, 91-2° (Skellysolve B) (HCl salt m. 192-3°) (EtOH); 4-(3-indolylethyl)-1-(p-aminophenethyl)piperidine-2HCl, 293° (decomposition) (EtOAc-MeOH); 4-(3-indolylethyl)-1-(β-hydroxyphenethyl)piperidine, 133-5° (EtOH) (HCl salt m. 193-4°) (EtOH-ether); 4-(3-indolylethyl)-1-phenethyl-Δ3-piperidine, 132-3° (C6H6-Skellysolve B) (HCl salt m. 179-80°); 4-(3-indolylethyl)-1-phenacylpiperidine, 173-4° (C6H6) (HCl salt m. 235-6°) (MeOH-ether); 4-(3-indolylethyl)-1-

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(phenoxyethyl)piperidine, 102-3° (HCl salt m. 170°; MeBr salt m. 200-8°); 4-(3-indolylethyl)-1-(3-phenoxy-2-hydroxypropyl)piperidine, 96-7° (HCl salt m. 196-7); 4-(1-methyl 3-indolylethyl)-1-phenethylpiperidine,-(HCl salt m. 201-2°); 4-(1-methyl-3-indolylethyl)-1-(β-hydroxyphenethyl)piperidine-HCl, 193-5°; and 4-(1-indolylethyl)-1-phenethylpiperidine-HCl, 161-6°.
IT **95703-73-4**, 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)- **104878-12-8**, 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)-, hydrochloride (preparation of)
RN 95703-73-4 CAPLUS
CN 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)- (7CI) (CA INDEX NAME)

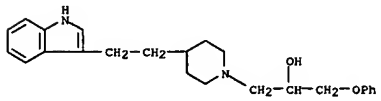


RN 104878-12-8 CAPLUS
CN 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)-, hydrochloride (7CI) (CA INDEX NAME)

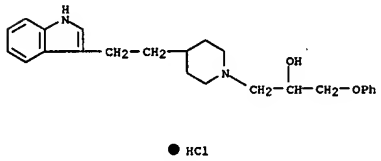


L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1962:60534 CAPLUS
DOCUMENT NUMBER: 56:60534
ORIGINAL REFERENCE NO.: 56:11559h-i,11560a-e
TITLE: Catalytic hydrogenation of indolylethylpyridines. 4(Indolylethyl)-1-aralkylpiperidines as potent analgesics
AUTHOR(S): Gray, Allan P.; Kraus, Harold
CORPORATE SOURCE: Irwin, Neisler & Co., Decatur, Ill.
SOURCE: Journal of Organic Chemistry (1961), 26, 3368-73
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 56:60534
GI For diagram(s), see printed CA Issue.
AB Catalytic hydrogenation of indolylethylpyridine bases in acidic solns. gave the corresponding indolylethylpiperidines. These reacted with aryl substituted alkylating agents to give indolylethyl-1-aralkylpiperidine derivs. (I). The same products were obtained by initial quaternization of the pyridine followed by hydrogenation under neutral conditions. Several of these compds. proved to be as effective as morphine in producing analgesia in animals. Thus, a solution of 53 g. 4-[2-(3-indolyl)etbyl]pyridine in 200 ml. glacial AcOH was hydrogenated over 1.2 g. PtO2 at room temperature and 50 lb./sq. in. Hydrogen absorption was slow, the calculated amount being absorbed in 45 hrs. The filtered solution was concentrated in vacuo to a thick, red oil which was taken up in dilute aqueous acid. The aqueous solution was washed with Et2O and made alkaline to precipitate an oil which solidified. The solution was recrystd. with C treatment from iso-PrOH to give 37.7 g. 4-[2-(3-indolyl)ethyl]piperidine (II), m. 162-3°. A stirred mixture of 125 g. II, 150 g. Na2CO3.H2O, and 750 ml. iso-PrOH was refluxed and a solution of 102 g. Ph(CH2)2Br in 125 ml. iso-PrOH added dropwise. Stirring and heating was continued 16 hrs. The hot reaction mixture was filtered, the filtrate was concentrated in vacuo to a smaller volume and cooled in an ice bath. Recrystn. of the resultant precipitate from EtOH gave 148 g. 4-[2-(3indolyl)ethyl]-1-phenethylpiperidine, m. 129-30° hydrochloride m. 225-6°. The following I were prepared (R, R', m.p., m.p. of hydrochloride given): benzyl, H, 91-2°, 192-3° α-phenylpropyl, H, 110-12°, 180-1° β-hydroxyphenethyl, H, 133-5°, 193-4° phenacyl, H, 173-4°, 2334° cinnamyl, H, 129-31°, --; phenoxyethyl, H, 102-3°, 170° β-hydroxy-γ-phenoxypropyl, H, 96-7°, 196-7° p nitrophenethyl, H, 173-5°, 254-5° p-aminophenethyl, H, --, (di-HCl salt) 293° H, Me, 65-6°, 200-1° phenethyl, Me, --, 201-2° β-hydroxyphenethyl, Me, --, 193-5°. The following III were prepared (R, R', piperidine position, m.p., m.p. of hydrochloride given): H, 3-indolyl, 2, 18941°, 218-19° γ-hydroxyphenethyl, 3-indolyl, 2, --, 1235° phenethyl, 1-indolyl, 4, --, 161-6° 3-indolylethyl, Ph, 4, 119-20°, 233-5°. The following IV were prepared (R, indole position, m.p. given): phenethyl, 3, 157-7.5° γ-phenylpropyl, 3, gradually above 65° phenoxyethyl, 3, 149-51° phenethyl, 1, 151-4°.

L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
IT **95703-73-4**, 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)- **104878-12-8**, 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)-, hydrochloride (preparation of)
RN 95703-73-4 CAPLUS
CN 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)- (7CI) (CA INDEX NAME)



RN 104878-12-8 CAPLUS
CN 1-Piperidineethanol, 4-(2-indol-3-ylethyl)-α-(phenoxymethyl)-, hydrochloride (7CI) (CA INDEX NAME)



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CA SUBSCRIBER PRICE                              -7.30      -7.30

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DICTIONARY FILE UPDATES:  19 JUN 2005  HIGHEST RN 852520-85-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

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*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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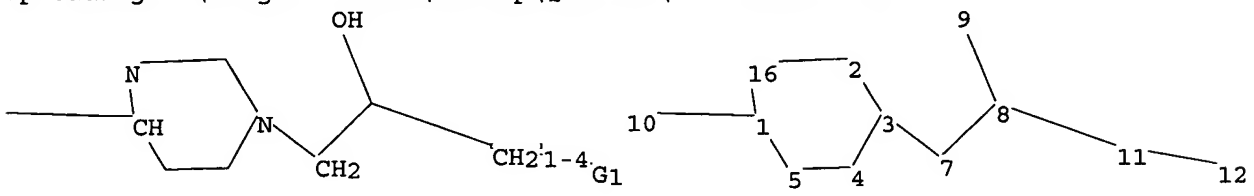


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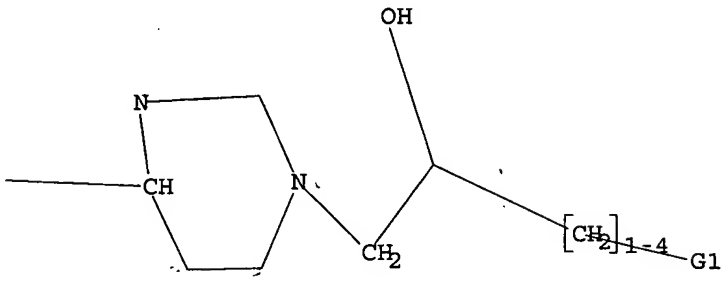
ring nodes :
1  2  3  4  5  16
chain bonds :
1-10  3-7  7-8  8-9  8-11  11-12
ring bonds :
1-5  1-16  2-3  2-16  3-4  4-5
exact/norm bonds :
1-5  1-16  2-3  2-16  3-4  4-5  8-9  11-12
exact bonds :
1-10  3-7  7-8  8-11
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
11:CLASS  12:CLASS  16:CLASS


L6      STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS
L6              STR
```




```
G1 O,S


Structure attributes must be viewed using STN Express query preparation.


=> s l6 ful
FULL SEARCH INITIATED 17:25:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    715 TO ITERATE

100.0% PROCESSED     715 ITERATIONS                              2 ANSWERS
SEARCH TIME: 00.00.01

L7            2 SEA SSS FUL L6

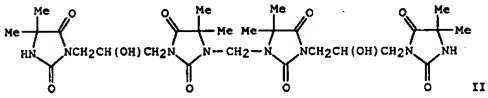
=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
```

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:190642 CAPLUS
DOCUMENT NUMBER: 86:190642
TITLE: Polyglycidyl compounds containing N-heterocyclic structure
INVENTOR(S): Habermeier, Juergen; Batzer, Hans; Porret, Daniel
PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA
SOURCE: U.S., 13 pp. Division of U.S. 3,900,493.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4001236	A	19770104	US 1975-588528	19750619
CH 581131	A	19761029	CH 1972-9528	19720623
US 3900493	A	19750819	US 1973-371449	19730619
ES 416144	A1	19760601	ES 1973-416144	19730622
IT 1003091	A	19760610	IT 1973-25749	19730622
US 4052366	A	19771004	US 1975-582041	19750529
US 3998837	A	19761221	US 1975-590550	19750626
US 3956309	A	19760511	US 1975-591678	19750630
US 4007199	A	19770208	US 1975-593916	19750707
US 4011235	A	19770308	US 1975-593801	19750707

PRIORITY APPLN. INFO.:
CH 1972-9528 A 19720623
US 1973-371449 A3 19730613
CH 1973-5750 A 19730419

GI

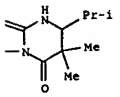


II

AB The title compds., prepared by treating polyepoxides with N-heterocyclic compds., are treated with epichlorohydrin (I) to give polyglycidyl compds.
which, when mixed with dicarboxylic anhydrides, are easily cured at 60-160°. Thus, 5,5-dimethylhydantoin [77-71-4] was treated with 1,1'-methylenebis(3-glycidyl-5,5-dimethylhydantoin) [15336-85-3] in the presence of Me4NCl to give the heterocyclic compound [52213-60-2] (II). Treatment of II with I gave a resin having epoxide content 4.30 equivalent/kg.
Several similar compds. were also prepared The resins were mixed with hexahydrophthalic anhydride and cured at 140-50° to give clear

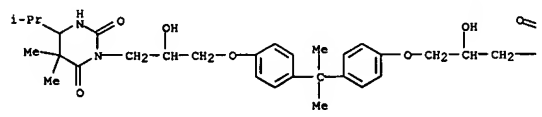
L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-B

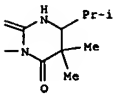


L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
transparent moldings.
IT 52213-62-4DP, reaction product with epichlorohydrin
52213-62-4P
RL: PREP (Preparation)
(preparation of)
RN 52213-62-4 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3,3'-[(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]]bis[dihydro-5,5-dimethyl-6-(1-methylethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

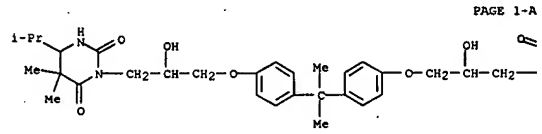


PAGE 1-B



RN 52213-62-4 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3,3'-[(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]]bis[dihydro-5,5-dimethyl-6-(1-methylethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:541586 CAPLUS
DOCUMENT NUMBER: 77:141586
TITLE: Hydantoin, uracil, and isocyanurate glycidyl acrylate and methacrylate monomers and polymers
INVENTOR(S): Habermeier, Juergen; Porret, Daniel; Leumann, Ernst
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Ger. Offen., 58 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2201793	A	19720803	DE 1972-2201793	19720114
CH 542851	A	19731130	CH 1971-624	19710115
US 3808226	A	19740430	US 1972-217629	19720113
GB 1367207	A	19740918	GB 1972-1911	19720114
JP 55049577	B4	19801212	JP 1972-6556	19720114
FR 2122268	A5	19720825	FR 1972-1405	19720117
US 3894016	A	19750708	US 1974-433629	19740116

PRIORITY APPLN. INFO.:
CH 1971-624 A 19710115
CH 1971-8634 A 19710614
US 1972-217629 A3 19720113

AB Twety of the title acrylates and methacrylates were prepared and some were
homopolymd. to resins useful as surface coatings, molding powders, and casting resins. In an example, 258 g 1,3-diglycidyl-5,5-dimethylhydantoin, 3 g hydroquinone (I), and 147.7 g acrylic acid was heated 20 min at 100-22.deg.; 2 addnl. 1 g portions I were added and after
90 min at 125-30.deg. there was obtained 1,3-bis(3-acryloxy-2-hydroxypropyl)-5,5-dimethylhydantoin (II) [36636-06-3]. II (100 parts) and 1.5 parts 50% cyclohexanone hydroperoxide was treated 2 hr at 80.deg. and 12 hr at 120.deg.in an Al mold to give hard plates of flexural strength 16.2-17.1 kg/mm2 and 4.9-5.2 mm (VSM 77103).
IT 38817-96-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 38817-96-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-2-methyl-3-[tetrahydro-3-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-5,5-dimethyl-4-(1-methylethyl)-2,6-dioxo-1(2H)-pyrimidinyl]propyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)